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				EXAMINER
			ART UNIT	PAPER NUMBER
	•		DATE MAILED:	17
		EXAMINER INTERVIEW SUMMARY REC	ORD	
All participants (applican			- 1 1	. 1
(1) Attorney	Lawrence	Harbin (3) Examiner	- Shick	Hom
(2) SPE DO	iglas Olm	Harbin (3) Examiner		
Date of interview	8-16-96			
		en to □ applicant 🌣 applicant's representative).		
Exhibit shown or demons	stration conducted: 🗆 Y	/es No. If yes, brief description:		
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Agreement Swas read	ched with respect to som	ne or all of the claims in question. 🗡 was not reached	d.	
Claims discussed:	1-	74		
dentification of prior art	discussed:	eral etal, McMullan	Tretas	2. Wheeler
		reed to if an agreement was reached, or any other cor		
i video-o	n-demand	1 & ADSL technology	witchdi	rowing claims
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trademark	term in a	laim 1. Applicant pre	sented ?	tatement on
Article	9.			
		the amendments, if available, which the examiner agre nts which would render the claims allowable is availabl		
1. It is not necessa	ry for applicant to provid	le a separate record of the substance of the interview.		c
WAIVED AND MUST IN	CLUDE THE SUBSTAN	o indicate to the contrary, A FORMAL WRITTEN RES CE OF THE INTERVIEW (e.g., items 1-7 on the rever- iven one month from this interview date to provide a st	se side of this form). If a response to the last Office
requirements th	at may be present in the ements of the last Office	y above (including any attachments) reflects a complete last Office action, and since the claims are now allow exaction. Applicant is not relieved from providing a segment of the complete section.	able, this complete	d form is considered to fulfill the
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PCT/US96/05453 Hybrid Networks, Inc.

Statement Under Article 19(1)

New claims 1-21 better define the invention over prior art references of Litteral et al. and Wheeler et al. In particular, the new claims characterize the invention as including a network manager (e.g., hybrid access system) that utilizes a point-to-multipoint shared medium architecture over which a host server communicates with a plurality of remote clients in an asymmetric and interactive communication network. This differs from the point-to-point ADSL bridge architecture (e.g., hub and spoke structure) of Litteral et al. that requires dedicated links between the ADSL bridge and each remote client. Alternatively, a "shared media" system permits multiple users to share common headend resources through a "parallel" or over-the-air coupling. It is noted that Wheeler et al. disclose a medium that is locally shared (e.g., a conventional LAN), as opposed to a host-to-remote shared medium, but even Wheeler et al.'s medium lacks both asymmetry operation and a network manager having the claimed structure to provide the claimed functionality.

Specific functionality provided by the shared medium architecture enables a network manager to provide more efficient sharing of resources and scalability in number of clients, interactive management of downstream and upstream data flow, switching between shared and dedicated logical upstream channels to better match bandwidth demand, assignment of optimum speeds of upstream data rate to respective clients (e.g, bandwidth on demand) based on available upstream bandwidth, as well as, other advantages. Such shared medium architecture for providing splitchannel asymmetric interactive full-duplex communication in which remote clients essentially are connected in parallel is not disclosed in any of the cited references.

Apart from differences mentioned above, new claims 22-26 define other features of the invention over McMullan et al. In particular, McMullan et al. fail to show a transmit queue at that transmitting end which enqueues data packets (or acknowledgments) from which redundant packets (or acknowledgments) about to be transmitted are removed from the transmit queue before they are actually transmitted in accordance with acknowledgments received from a transmitter located at a receiving end. McMullan et al. merely show suppression operations at a receiving end and not interactivity between a transmitting and receiving end to remove redundancy of information in a transmit queue. Also, McMullan et al. do not show use of such suppression techniques in a shared medium point-to-multipoint environment as provided by the new claims. Aside from the absence of an interactive network McMullan et al. also do not show "dynamic" calibration of power based on "successive" transmission of different power levels as recited in new claim 23. Instead, McMullan et al. show "manual" power calibration. Further, McMullan et al. do not disclose feedback control of power or other parameters based on a quality characteristic such as a "last operability indication", "signal-to-noise ratio" or "error frequency" as recited in claim 26.